

TECHNIQUES FOR MAKING NON-HALOGENATED FLAME RETARDANT  
CROSS-LINKED POLYOLEFIN MATERIAL WHICH IS SUITABLE  
FOR USE IN A CABLE

5 ABSTRACT OF THE DISCLOSURE

A system makes a run of cross-linked non-halogenated flame retardant polyolefin material. The system includes an extruder having a die that defines an elongated opening which is at least 7.5 centimeters wide (e.g., substantially 40 centimeters wide). The extruder is configured to extrude molten non-halogenated flame  
10 retardant polyolefin material through the die. The system further includes a cooling assembly coupled to the extruder. The cooling assembly is configured to cool the extruded non-halogenated flame retardant polyolefin material so that the extruded non-halogenated flame retardant polyolefin material hardens into a sheet of non-halogenated flame retardant polyolefin material. The system further includes a cross-linking  
15 assembly which is configured to cross-link the sheet of non-halogenated flame retardant polyolefin material. Such material is well-suited for use in a variety of applications such as cables, construction materials and furniture, among other things.